

WHAT IS CLAIMED IS:

1 1. A rotary power hand tool comprising:
2 a housing having an outer surface and a motor therein and having at
3 least two attachment recesses spaced from one another in said outer surface of said
4 housing;

5 a flexible handle having an elongated flexible intermediate portion
6 extending between opposite end portions, each end portion having an attachment
7 clip connected thereto, said attachment clips being configured to fit within said
8 attachment recesses to attach said handle to said housing;

1 2. A rotary power hand tool as defined by claim 1 wherein said
2 intermediate portion comprises a thin flexible strap of material.

1 3. A rotary power hand tool as defined by claim 2 wherein said
2 thin flexible strap of material is a woven fabric.

1 4. A rotary power hand tool as defined by claim 1 wherein at
2 least one of said recesses has a bottom surface and at least spaced apart opposing
3 walls extending from said bottom surface to said outer surface, each of said
4 opposing walls having an opening therein below said outer surface and defining a
5 shelf beneath said surface for engaging one of said attachment clips.

1 5. A rotary power hand tool as defined by claim 4 wherein each
2 of said attachment clips comprises:

3 a generally flat base portion;

4 two side portions extending generally transversely from said base
5 portion, the distance between said side portions being approximately the width of
6 said intermediate portion;

7 a bridge portion extending between said side portions and defining a
8 support member for connecting said attachment clip to said intermediate portion;
9 and

10 a pair of spaced apart prongs extending transversely in a direction
11 opposite said side portions, each of said prongs having a transverse leg near the

12 ends thereof and extending in the opposite direction relative to each other, said
13 prongs being sufficiently spaced and made of resilient material so that when each
14 said clip is inserted into said attachment recess, said transverse legs engage said
15 shelves and retain said clip in said recess.

1 6. A rotary power hand tool as defined by claim 5 wherein said
2 clips are made of a strong resilient plastic material.

1 7. A rotary power hand tool as defined by claim 5 wherein said
2 base has a discontinuity between said prongs, thereby enabling said prongs to be
3 moved toward one another when said sides are pressed together, to thereby
4 disengage said legs from said shelves so that said clip can be removed from said
5 attachment recess.

1 8. A rotary power hand tool as defined by claim 2 further
2 comprising an enlarged pad attached to said intermediate portion.

1 9. A rotary power hand tool as defined by claim 4 wherein said
2 recess further comprises a third wall between said opposing walls, said third wall
3 having an opening therein below said outer surface defining a shelf beneath said
4 surface for engaging an attaching mechanism of a removable rigid handle.

1 10. A rotary power hand tool as defined by claim 8 wherein at
2 least one end portion of said flexible handle comprises an adjustment buckle for
3 varying the length of said intermediate portion.

1 11. A rotary hand tool comprising:
2 a housing having an outer surface and at least two attachment
3 recesses spaced from one another in said outer surface of said housing, each of
4 said recesses having a bottom surface and generally perpendicular walls, said
5 walls having multiple openings below said outer surface of said housing, each
6 opening defining a retaining shelf, two of said shelves being spaced apart and
7 opposite one another and configured to retain one of said attachment clips, and a
8 third shelf being configured to retain a rigid handle attachment mechanism; and

9 a flexible handle comprising an elongated flexible flat strap, each
10 end portion of which is connected to an attachment clip, said attachment clips
11 being configured to fit within said attachment recesses and engage said two
12 opposed shelves to attach said handle to said housing.

1 12. A rotary power hand tool as defined in claim 11 wherein said
2 third shelf is located between said two shelves.

1 13. In a rotary hand tool of the type which has a housing having
2 an outer surface and at least two attachment recesses spaced from one another and
3 located in the outer surface of the housing, each of the recesses having a bottom
4 surface and generally perpendicular walls, and an opening in one of the walls
5 below the surface to define a shelf configured to retain an end of a rigid handle,
6 the improvement comprising:

7 each of the recesses having two other walls with openings below the
8 outer surface of the housing, each opening defining a clip retaining shelf, the two
9 clip retaining shelves being spaced apart and opposite one another and configured
10 to retain an attachment clip; and

11 a flexible handle comprising an elongated flexible flat strap, each
12 end portion of which has an attachment clip connected thereto, said attachment
13 clips being configured to fit within the attachment recesses and engage said clip
14 retaining shelves to attach said flexible handle to said housing.

1 14. The rotary hand tool as defined in claim 13 wherein each of
2 said attachment clips comprises:

3 a generally flat base portion;

4 two side portions extending generally transversely from said base
5 portion, the distance between said side portions being approximately the width of
6 said intermediate portion;

7 a bridge portion extending between said side portions and defining a
8 support member for connecting said attachment clip to said intermediate portion;
9 and

10 a pair of spaced apart prongs extending transversely in a direction
11 opposite said side portions, each of said prongs having a transverse leg near the
12 ends thereof and extending in the opposite direction relative to each other, said
13 prongs being sufficiently spaced and made of resilient material so that when each
14 said clip is inserted into said attachment recess, said transverse legs engage said
15 shelves and retain said clip in said recess.

1 15. A rotary power hand tool as defined by claim 14 wherein said
2 clips are made of a strong resilient plastic material.

1 16. A rotary power hand tool as defined by claim 14 wherein said
2 base has a discontinuity between said prongs, thereby enabling said prongs to be
3 moved toward one another when said sides are pressed together, to thereby
4 disengage said legs from said shelves so that said clip can be removed from said
5 attachment recess.

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